

# Thapanapong Rukkanchanunt

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## Education

- ❖ Tokyo Institute of Technology, Tokyo, Japan  
Ph.D., Systems and Control Engineering September 2019
  - ❖ University of Illinois at Urbana-Champaign, Illinois, USA  
M.S., Computer Science May 2014
  - ❖ University of Illinois at Urbana-Champaign, Illinois, USA  
B.S., Computer Science May 2012
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## Publications and Patents (2017 - 2022)

- ❖ Shibata, Takashi, et al. "Camera calibration information acquisition device, image processing device, camera calibration information acquisition method, and recording medium." U.S. Patent Application No. 17/432,795.
- ❖ Ata, Worakun, Thapanapong Rukkanchanunt, and Jakarin Chawachat. "Using Fast Intersection to improve SCAN Algorithm." 2021 18th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON). IEEE, 2021.
- ❖ Rukkanchanunt, Thapanapong, Masayuki Tanaka, and Masatoshi Okutomi. "Full thermal panorama from a long wavelength infrared and visible camera system." Journal of Electronic Imaging 28.3 (2019): 033028.
- ❖ Rukkanchanunt, Thapanapong, et al. "Disparity map estimation from cross-modal stereo." 2018 IEEE Global Conference on Signal and Information Processing (GlobalSIP). IEEE, 2018.
- ❖ Chekuri, Chandra, and Thapanapong Rukkanchanunt. "A note on iterated rounding for the Survivable Network Design Problem." 1st Symposium on Simplicity in Algorithms (SOSA 2018). Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, 2018.
- ❖ Rukkanchanunt, Thapanapong, Masayuki Tanaka, and Masatoshi Okutomi. "Image enhancement framework for low-resolution thermal images in visible and LWIR camera systems." Emerging Imaging

## Professional/Academic Honors and Awards

- ❖ Royal Thai Scholarship from the Royal Thai Government to study Information Technology through the Master Degree in the United States of America *2007 – 2014*
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## Skills

- ❖ Programming Skills C, C++, JAVA, PHP, HTML, JavaScript, Python, MATLAB, Dart, Flutter
  - ❖ Languages Thai (Native), English (Fluent), Japanese (Intermediate)
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## Research Project

- ❖ Element-Connectivity in Graph, supervised by Chandra Cheruki *Summer 2010 - Spring 2012*
  - ❖ The 2011 Data Science Summer Institute, held by Multimodal Information Access & Synthesis Center *Summer 2011*
  - ❖ Completeness of Structure from Motion, supervised by Mani Golparvar-Fard *Summer 2013 - Spring 2014*
  - ❖ Multi-Modal Image Registration and its Applications, supervised by Masayuki Tanaka and Masatoshi Okutomi *Fall 2016 - Spring 2019*
  - ❖ Model-free Reinforcement Learning for Decision Making under Uncertainty *Ongoing*
  - ❖ Localization Optimization of Multiple LiDARs for Virtual Reality Application *Ongoing*
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## Employments

- ❖ Lecturer at Chiang Mai University *July 2014 – Present*

❖ Grader for CS473, Fundamental Algorithm

*Fall 2010 – Spring 2011*

❖ Grader for CS373, Theory of Computation

*Spring 2010*

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